SEQ ID NO.	BIALLELIC MARKER ID	ORIGINAL ALLELE	ALTERNATIVE ALLELE
1	20-828-311	C	T
1, 4	17-42-319	C	T
1, 2, 4	17-41-250	C	T
1	20-841-149	A	G
1	20-842-115	G	A
1	20-853-415	C	T

Figure 1

SEQ ID no.	Biallelic Marker ID	Original Allele	Alternative Allele	Position Range of Preferred Sequences
1	20-828-311	C	T	739-1739
1	17-42-319	C	T	10946-12958; 13470-13526; 13641-13752
1	17-41-250	C	T	14271-17969
1	20-841-149	A	G	41718-42718
1	20-842-115	G	A	44942-45942
1	20-853-415	C	T	76558-77558
2	17-41-250	C	T	1-1879
4	17-42-319	C	T	1-1498; 1613-1724
4	17-41-250	C	T	2243-3940; 3941-5381

Figure 2

A

SEQ ID NO.	POSITION OF CONFLICT	NUCLEOTIDE
1	13269 (SEQ ID No 1)	T (original)
4	1241 (SEQ ID No 4)	C (alternative)

B

SEQ ID NO.	POSITION OF CONFLICT	NUCLEOTIDE
1	13475 (SEQ ID No 1)	G (original)
4	1447 (SEQ ID No 4)	A (alternative)

Figures 3A, 3B

SEQ. ID. NO	POSITION RANGE O MICROSEQUENCING PRIMERS	COMPLEMENTARY POSITIN RANGE OF MICROSEQUENCING PRIMERS
1	1220-1238	1240-1258
1	12328-12346	12348-12366
1	15222-15240	15242-15260
1	42199-42217	42219-42237
1	45423-45441	45443-45461
1	77039-77057	77059-77077
4	300-318	320-338
4	3194-3212	3214-3232

Figure 4

SEQ. ID N0.	POSITION RANGE OF AMPLIFICATION PRIMERS	COMPLEMENTARY POSITION RANGE OF AMPLIFICATION PRIMERS
1	929-949	1357-1377
1	12029-12050	12581-12603
1	14992-15012	15460-15482
1	42070-42090	42572-42591
1	45328-45347	45863-45883
1	76644-76664	77166-77185
4	1-11022	553-11575
4	899-11920	1441-12461
4	1246-12267	1632-12651
4	2964-13984	3432-14454

Figure 5

SEQ. ID NO	POSITION RANGE OF PFOBES
1	1227-1251
1	12335-12359
1	15229-15253
1	42206-42230
1	45430-45454
1	77046-77070
4	307-331
4	3201-3225

Figure 6

Alignment of ApoA IV-related cDNA with Human and Swine cDNA's

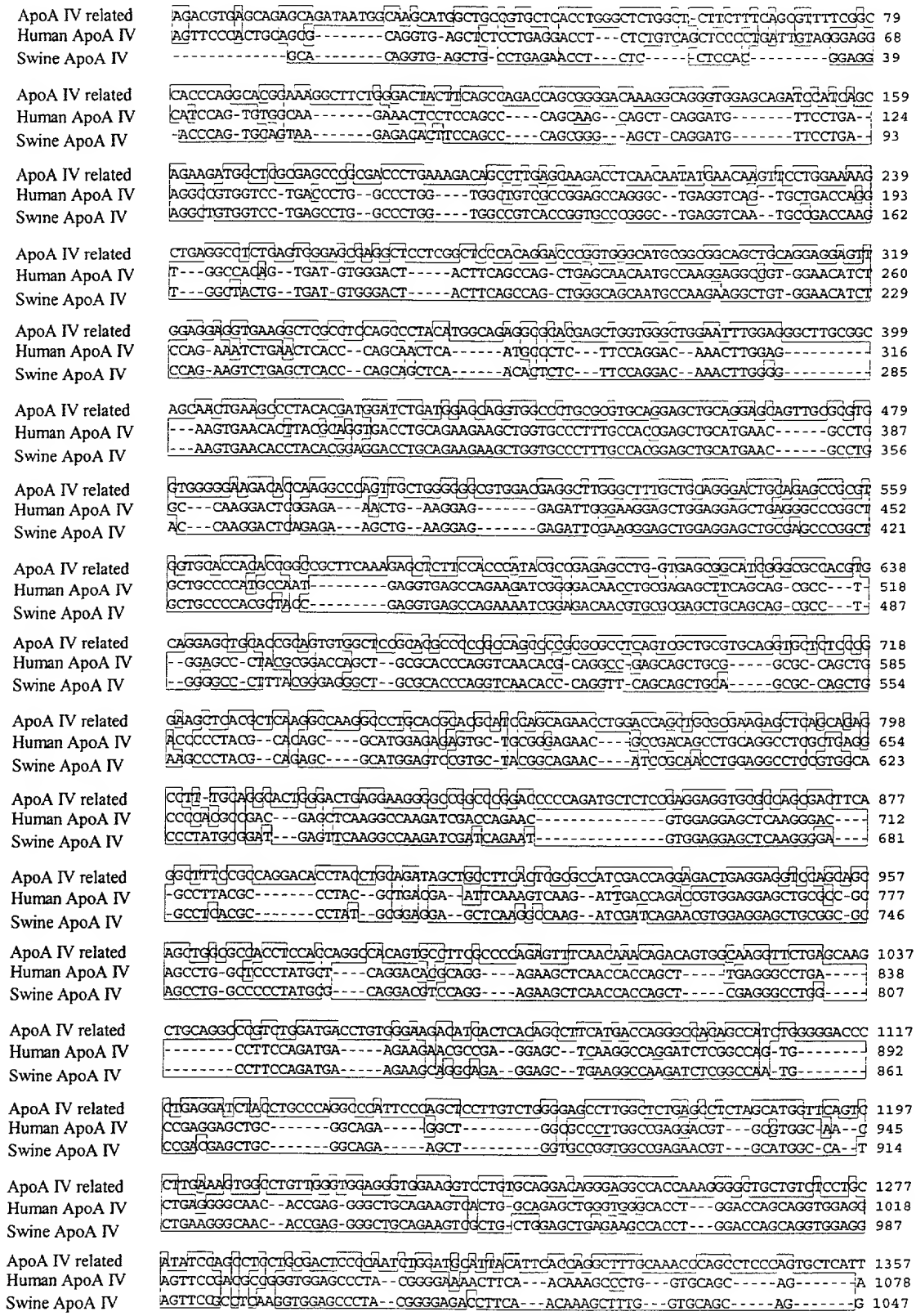

Figure 7 A

Alignment of ApoA IV-related cDNA with Human and Swine cDNA's

Figure 7 B

Alignment of ApoA IV-related protein with Human and Swine ApoA IV

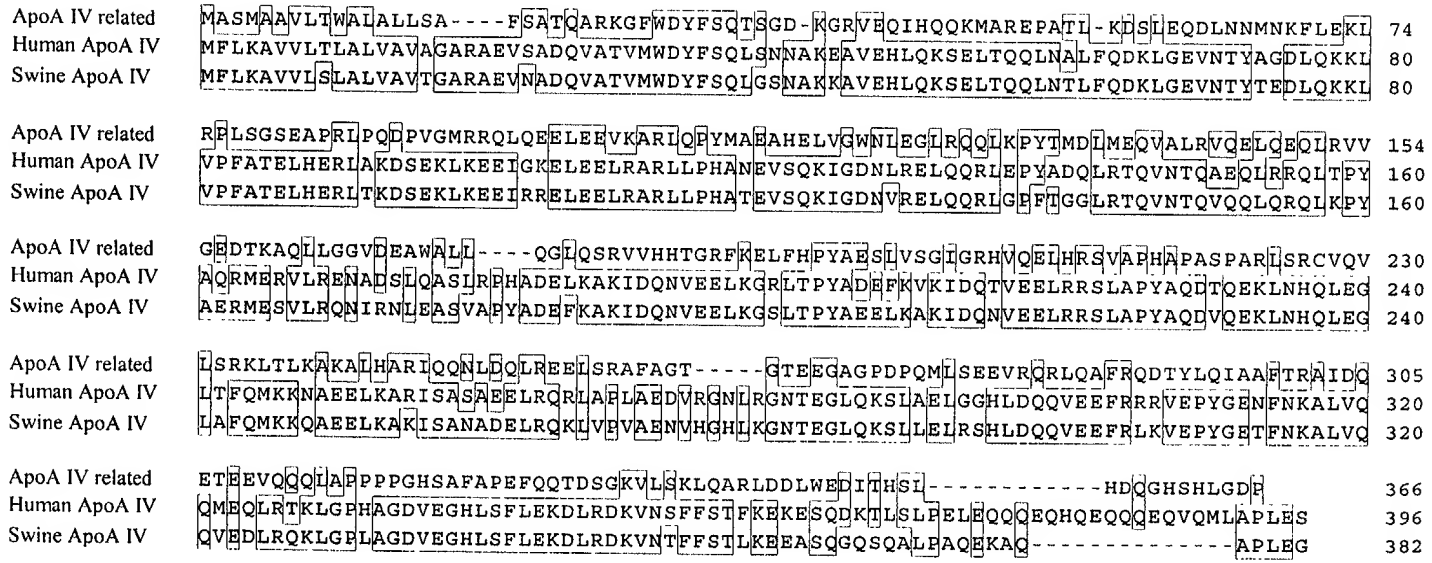

Figure 8

Alignment of ApoA IV-related cDNA with Rat RAP3 cDNAs

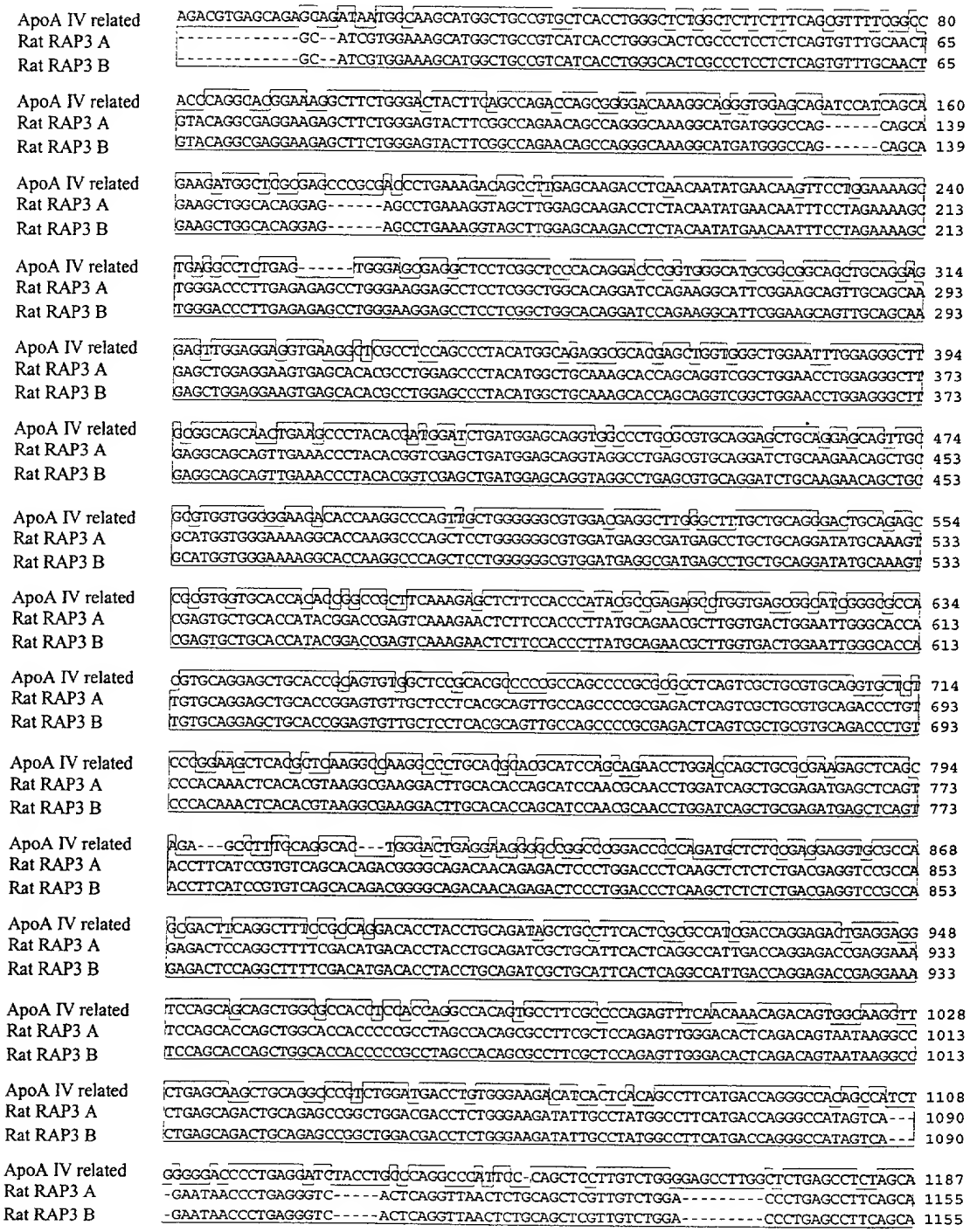

Figure 9 A

Alignment of ApoA IV-related cDNA with Rat RAP3 cDNAs

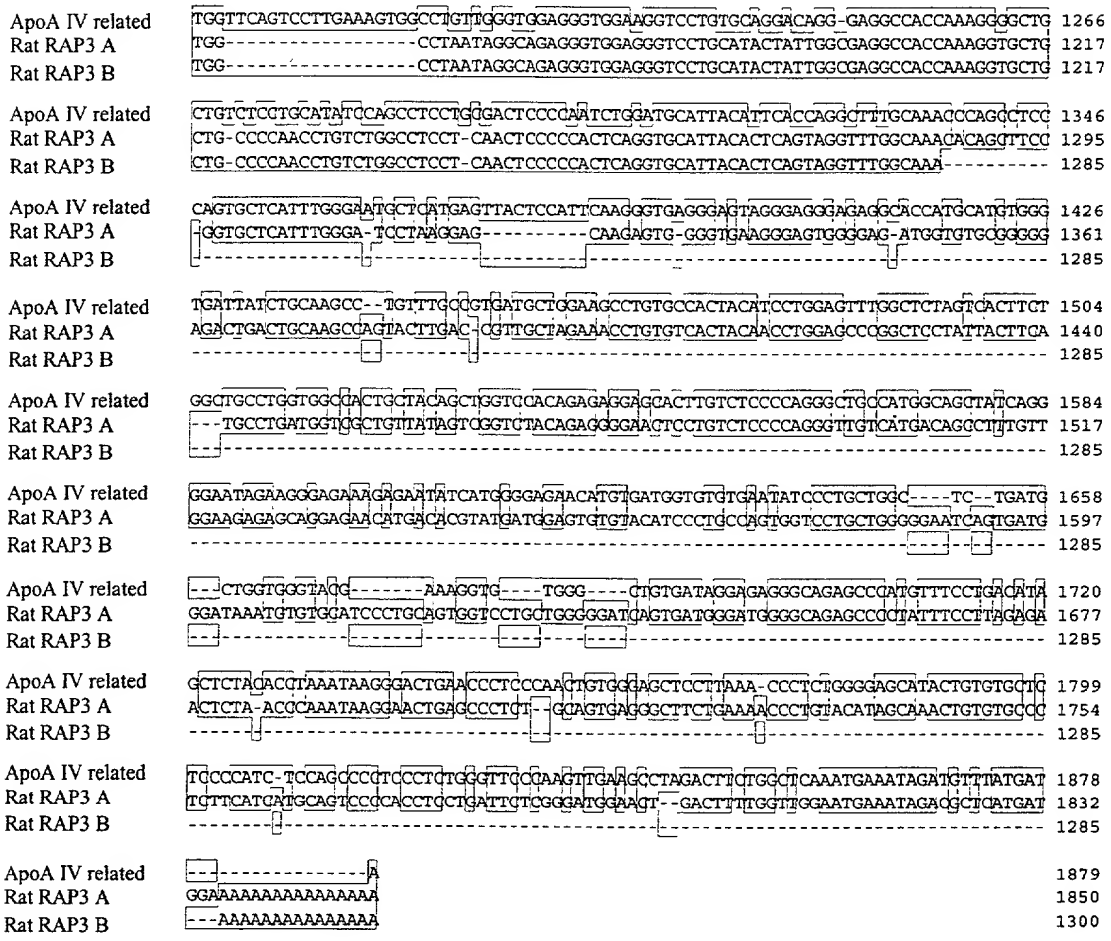

Figure 9 B

Alignment of ApoA IV-related protein to Rat RAP3 proteins

```
ApoA IV related  MASMAAVLTWALALLSAFSATQARKGFWDYFSQTSGDKGRVEQIHQQKMAREPATLKDSLEQDLNNMNKFLEKLRPL--S  78
Rat RAP3 A       MA---AVITWALALLSVFATVQARKSFWEYFGQNSQGKGMMGQ--QQKLAQES--LKGSLEQDLYNMNNFLEKLGPLREP  73
Rat RAP3 B       MA---AVITWALALLSVFATVQARKSFWEYFGQNSQGKGMMGQ--QQKLAQES--LKGSLEQDLYNMNNFLEKLGPLREP  73

ApoA IV related  GSEAPRLPQDPVGMRRQLQEELEEVKARLQPYMAEAHELVGWNLEGLRQQLKPYTMDLMEQVALRVQELQEQLRVVGEDT  158
Rat RAP3 A       GKEPPRLAQDPEGIRKQLQQELEEVSTRLEPYMAAKHQQVGWNLEGLRQQLKPYTVELMEQVGLSVQDLQEQLRMVGKGT  153
Rat RAP3 B       GKEPPRLAQDPEGIRKQLQQELEEVSTRLEPYMAAKHQQVGWNLEGLRQQLKPYTVELMEQVGLSVQDLQEQLRMVGKGT  153

ApoA IV related  KAQLLGGVDEAWALLQGLQSRVVHHTGRFKELFHPYAESLVSGIGRHVQELHRSVAPHAPASPARLSRCVQVLSRKLTLK  238
Rat RAP3 A       KAQLLGGVDEAMSLLQDMQSRVLHHTDRVKELFHPYAERLVTGIGHHVQELHRSVAPHAVASPARLSRCVQTLSHKLTRK  233
Rat RAP3 B       KAQLLGGVDEAMSLLQDMQSRVLHHTDRVKELFHPYAERLVTGIGHHVQELHRSVAPHAVASPARLSRCVQTLSHKLTRK  233

ApoA IV related  AKALHARIQQNLDQLREELSRAF---AGTGTEEGAGPDPQMLSEEVRQRLQAFRQDTYLQIAAFTRAIDQETEEVQQQLA  315
Rat RAP3 A       AKDLHTSIQRNLDQLRDELS-TFIRVSTDGADNRDSLDPQALSDEVRQRLQAFRHDTYLQIAAFTQAIDQETEEIQHQLA  312
Rat RAP3 B       AKDLHTSIQRNLDQLRDELS-TFIRVSTDGADNRDSLDPQALSDEVRQRLQAFRHDTYLQIAAFTQAIDQETEEIQHQLA  312

ApoA IV related  PPPPGHSAFAPEFQQTDSGKVLSKLQARLDDLWEDITHSLHDQGHSHLG----DP                          366
Rat RAP3 A       PPPPSHSAFAPELGHSDSNKALSRLQSRLDDLWEDIAYGLHDQGHSQNNPEGHSG                          367
Rat RAP3 B       PPPPSHSAFAPELGHSDSNKALSRLQSRLDDLWEDIAYGLHDQGHSQNNPEGHSG                          367
```

Figure 10

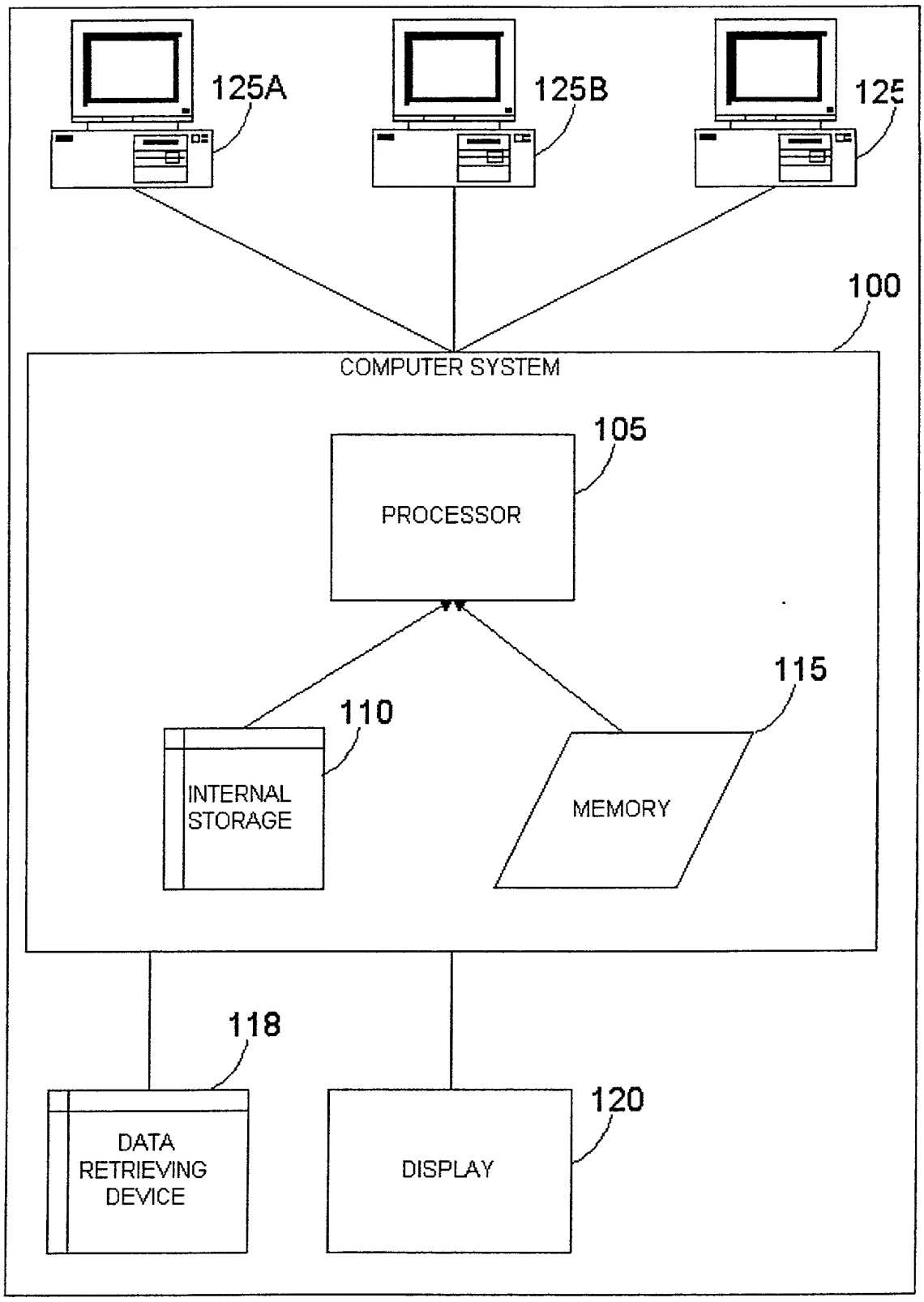
125A
125B
125
100
COMPUTER SYSTEM
105
PROCESSOR
115
110
INTERNAL STORAGE
MEMORY
118
DATA RETRIEVING DEVICE
120
DISPLAY

Figure 11

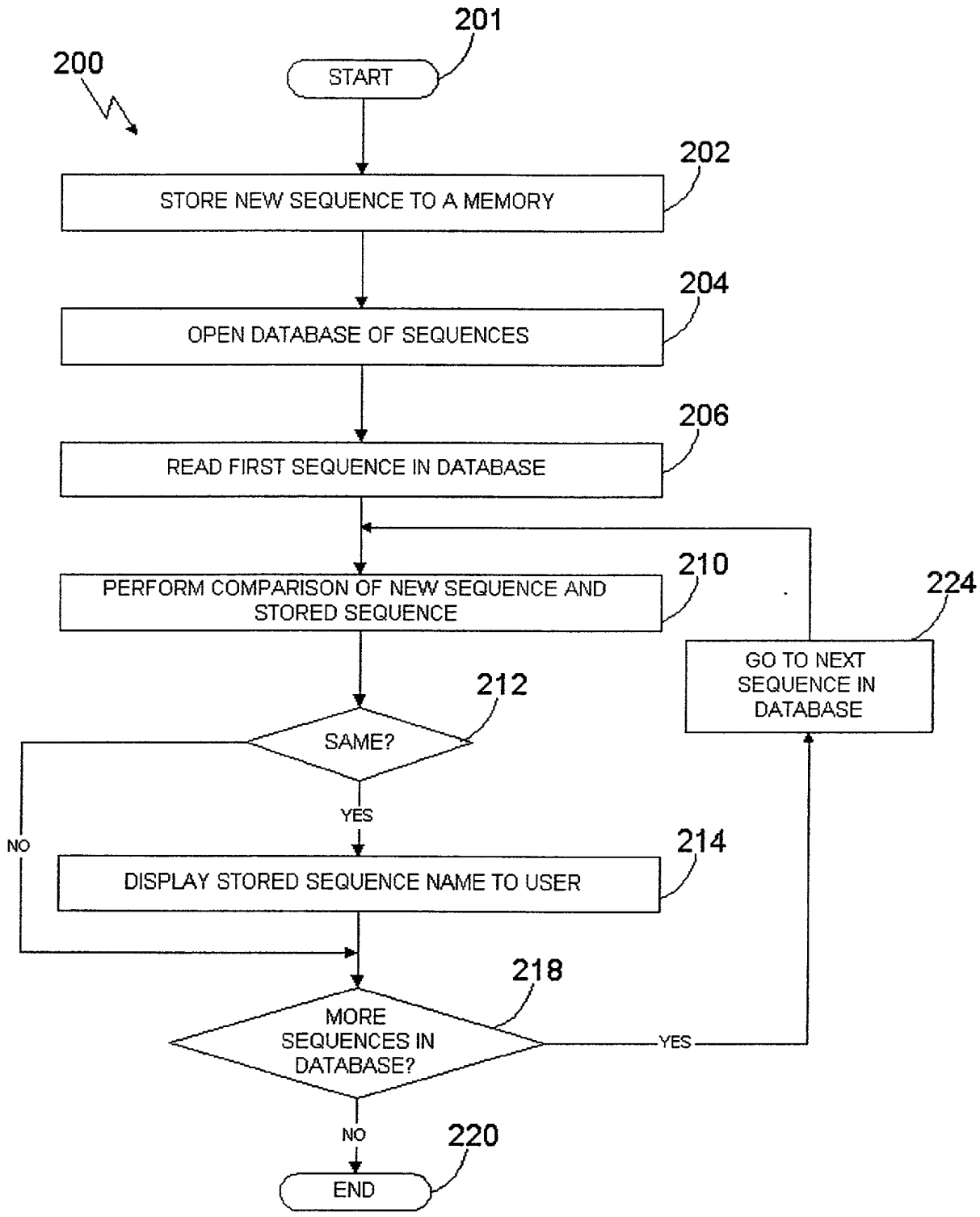
200
201
START
202
STORE NEW SEQUENCE TO A MEMORY
204
OPEN DATABASE OF SEQUENCES
206
READ FIRST SEQUENCE IN DATABASE
210
PERFORM COMPARISON OF NEW SEQUENCE AND STORED SEQUENCE
212
SAME?
YES
NO
214
DISPLAY STORED SEQUENCE NAME TO USER
218
MORE SEQUENCES IN DATABASE?
YES
NO
220
END
224
GO TO NEXT SEQUENCE IN DATABASE

Figure 12

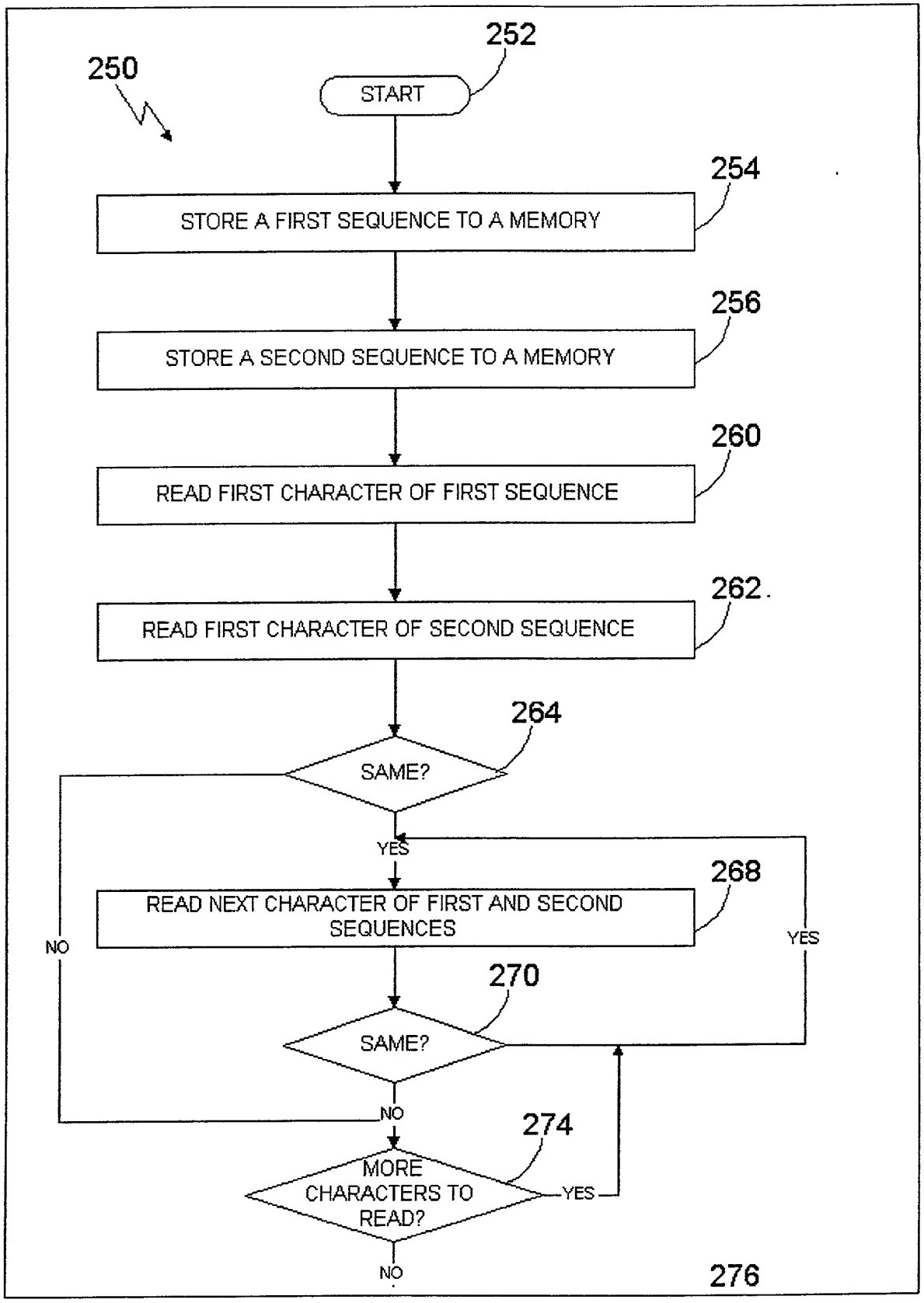
250
252
START
254
STORE A FIRST SEQUENCE TO A MEMORY
256
STORE A SECOND SEQUENCE TO A MEMORY
260
READ FIRST CHARACTER OF FIRST SEQUENCE
262
READ FIRST CHARACTER OF SECOND SEQUENCE
264
SAME?
YES
NO
268
READ NEXT CHARACTER OF FIRST AND SECOND SEQUENCES
YES
270
SAME?
NO
274
MORE CHARACTERS TO READ?
YES
NO
276

Figure 13

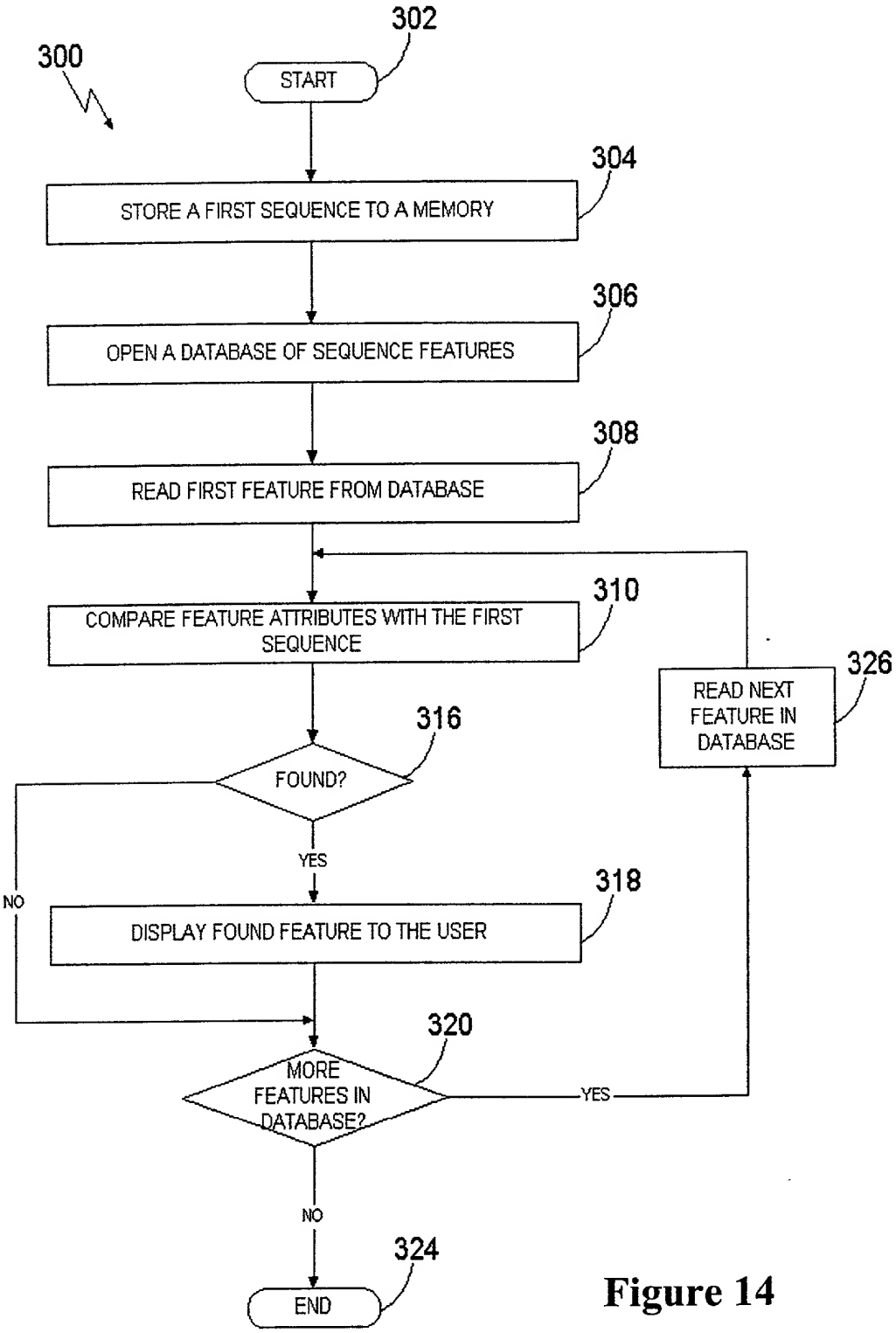
300
302
START
304
STORE A FIRST SEQUENCE TO A MEMORY
306
OPEN A DATABASE OF SEQUENCE FEATURES
308
READ FIRST FEATURE FROM DATABASE
310
COMPARE FEATURE ATTRIBUTES WITH THE FIRST SEQUENCE
316
FOUND?
YES
NO
318
DISPLAY FOUND FEATURE TO THE USER
320
MORE FEATURES IN DATABASE?
YES
NO
324
END
326
READ NEXT FEATURE IN DATABASE

Figure 14